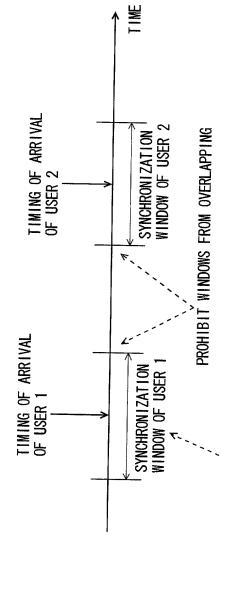
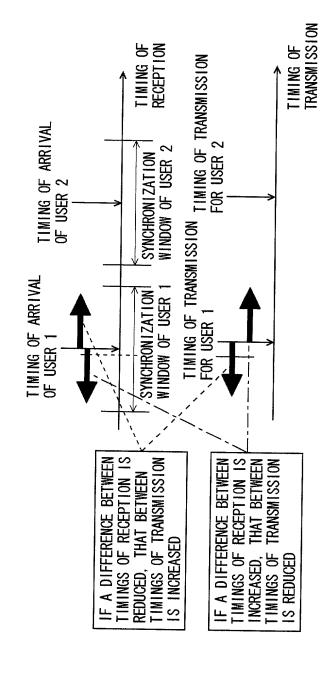


F I G. 2



SYNCHRONIZATION WINDOW IS SET TO BE A SECTION HAVING α SYMBOLS, WITH THE CENTER POSITIONED AT THE TIMING OF ARRIVAL



3

<u>@</u>

F I G. 3

FIG.

SET A SYNCHRONIZATION WINDOW (A SECTION ACCEPTED AS A SYNCHRONIZATION POSITION) FORMED OF α SYMBOLS, WITH THE CENTER POSITIONED AT AN ESTIMATED SYNCHRONIZATION POSITION

MULTI-USERS YES SYNCHRONIZATION WINDOWS SPACED BY NO MORE THAN A THRESHOLD OF 1 ? THRESHOLD VALUE OF 1: NO THRESHOLD PREVENTING WINDOWS

FROM OVERLAPPING

MULTI-USERS' YES SYNCHRONIZATION WINDOWS SPACED BY NO LESS THAN A THRESHOLD 0F 2 ?

THRESHOLD VALUE OF 2: THRESHOLD PREVENTING WINDOWS FROM BEING SPACED WIDE APART

\$4

NO

S₁

S2

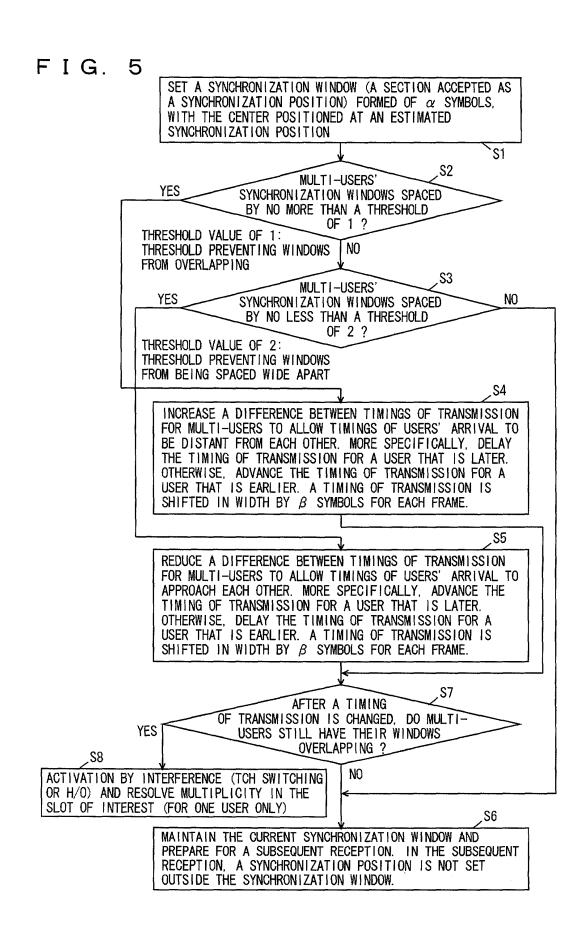
INCREASE A DIFFERENCE BETWEEN TIMINGS OF TRANSMISSION FOR MULTI-USERS TO ALLOW TIMINGS OF USERS' ARRIVAL TO BE DISTANT FROM EACH OTHER. MORE SPECIFICALLY, DELAY THE TIMING OF TRANSMISSION FOR A USER THAT IS LATER. OTHERWISE. ADVANCE THE TIMING OF TRANSMISSION FOR A USER THAT IS EARLIER. A TIMING OF TRANSMISSION IS SHIFTED IN WIDTH BY β SYMBOLS FOR EACH FRAME.

S5

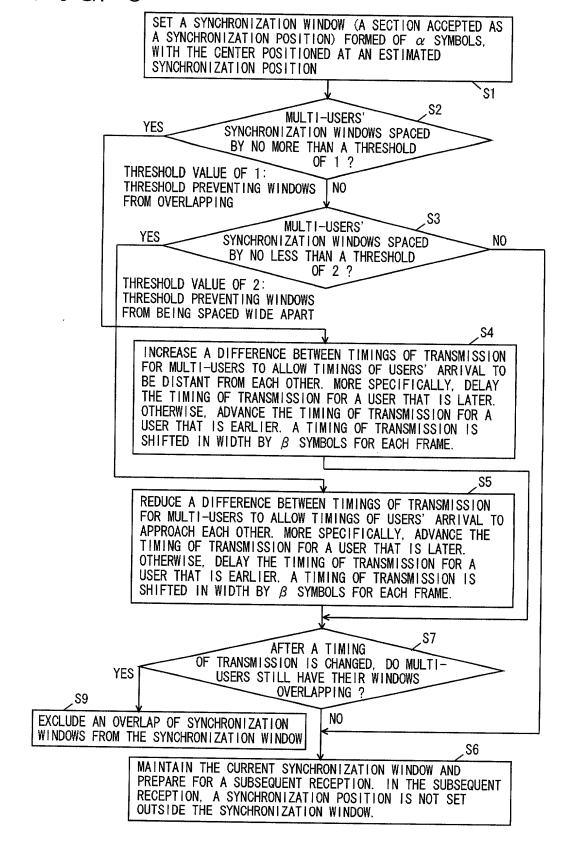
REDUCE A DIFFERENCE BETWEEN TIMINGS OF TRANSMISSION FOR MULTI-USERS TO ALLOW TIMINGS OF USERS' ARRIVAL TO APPROACH EACH OTHER. MORE SPECIFICALLY, ADVANCE THE TIMING OF TRANSMISSION FOR A USER THAT IS LATER. OTHERWISE, DELAY THE TIMING OF TRANSMISSION FOR A USER THAT IS EARLIER. A TIMING OF TRANSMISSION IS SHIFTED IN WIDTH BY B SYMBOLS FOR EACH FRAME.

S6

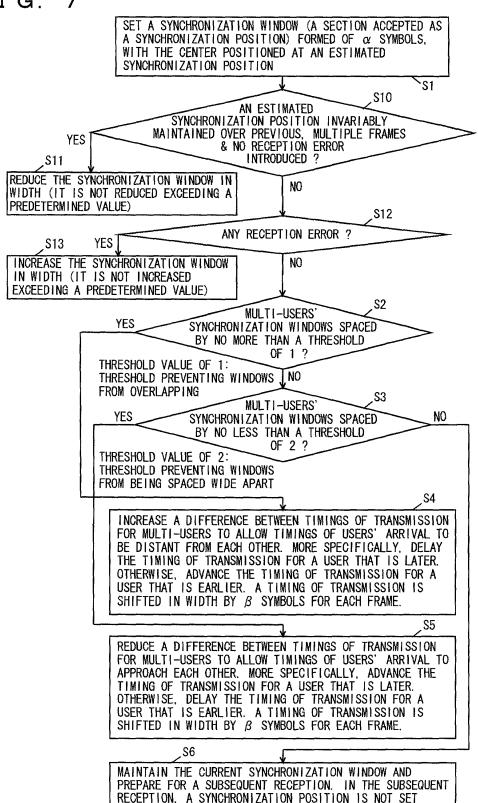
MAINTAIN THE CURRENT SYNCHRONIZATION WINDOW AND PREPARE FOR A SUBSEQUENT RECEPTION. IN THE SUBSEQUENT RECEPTION, A SYNCHRONIZATION POSITION IS NOT SET OUTSIDE THE SYNCHRONIZATION WINDOW.



F I G. 6



F I G. 7



OUTSIDE THE SYNCHRONIZATION WINDOW.

SET A SYNCHRONIZATION WINDOW (A SECTION ACCEPTED AS A SYNCHRONIZATION POSITION) FORMED OF α SYMBOLS, WITH THE CENTER POSITIONED AT AN ESTIMATED SYNCHRONIZATION POSITION

S14

ADDITIONALLY SET A DEFAULT SYNCHRONIZATION WINDOW WIDTH AND DECREASE THE DEFAULT SYNCHRONIZATION WINDOW WIDTH AS MULTIPLICITY INCREASES

YES SYNCHRONIZATION WINDOWS SPACED
BY NO MORE THAN A THRESHOLD
OF 1 ?

THRESHOLD VALUE OF 1:
THRESHOLD PREVENTING WINDOWS \(\) NO

FROM OVERLAPPING

\$3

YES SYNCHRONIZATION WINDOWS SPACED
BY NO LESS THAN A THRESHOLD

NO

THRESHOLD VALUE OF 2:
THRESHOLD PREVENTING WINDOWS

THRESHOLD PREVENTING WINDOWS FROM BEING SPACED WIDE APART

S4

INCREASE A DIFFERENCE BETWEEN TIMINGS OF TRANSMISSION FOR MULTI-USERS TO ALLOW TIMINGS OF USERS' ARRIVAL TO BE DISTANT FROM EACH OTHER. MORE SPECIFICALLY, DELAY THE TIMING OF TRANSMISSION FOR A USER THAT IS LATER. OTHERWISE, ADVANCE THE TIMING OF TRANSMISSION FOR A USER THAT IS EARLIER. A TIMING OF TRANSMISSION IS SHIFTED IN WIDTH BY β SYMBOLS FOR EACH FRAME.

S5

REDUCE A DIFFERENCE BETWEEN TIMINGS OF TRANSMISSION FOR MULTI-USERS TO ALLOW TIMINGS OF USERS' ARRIVAL TO APPROACH EACH OTHER. MORE SPECIFICALLY, ADVANCE THE TIMING OF TRANSMISSION FOR A USER THAT IS LATER. OTHERWISE, DELAY THE TIMING OF TRANSMISSION FOR A USER THAT IS EARLIER. A TIMING OF TRANSMISSION IS SHIFTED IN WIDTH BY β SYMBOLS FOR EACH FRAME.

.\$6

MAINTAIN THE CURRENT SYNCHRONIZATION WINDOW AND PREPARE FOR A SUBSEQUENT RECEPTION. IN THE SUBSEQUENT RECEPTION, A SYNCHRONIZATION POSITION IS NOT SET OUTSIDE THE SYNCHRONIZATION WINDOW.